

What is claimed is:

1. An apparatus for setting brightness control codes used to control a brightness of a display screen, comprising:

5 a sensor configured to measure a brightness of a display screen and to output a brightness signal;

a controller configured to receive the brightness signal and to output brightness control codes based on the brightness signal, wherein the brightness control codes can be used to selectively  
10 adjust a brightness of the display screen.

2. The apparatus according to claim 1, wherein the controller is also configured to control a brightness of the display screen such that the display screen can be adjusted to a  
15 predetermined brightness level, and wherein the controller uses the brightness signal from the sensor to set brightness control codes that corresponds to the predetermined brightness level.

3. The apparatus of claim 2, wherein the controller is  
20 also configured to control the display screen such that the display screen can be adjusted to a plurality of different predetermined brightness levels, and wherein the controller uses brightness signals output from the sensor at each of the plurality of different predetermined brightness levels to set a

plurality of different brightness control codes that correspond to each of the plurality of different predetermined brightness levels.

5           4.   The apparatus of claim 1, wherein the controller is configured to record the brightness control codes in a memory of a computer system.

10           5.   The apparatus according to claim 1, wherein the controller is configured to record the brightness control codes in a memory of the display screen.

15           6.   The apparatus according to claim 1, wherein the controller is configured to output the brightness control codes to at least one of a system BIOS of a computer, an operating system of a computer, and a microcontroller of a computer system.

            7.   The apparatus according to claim 1, wherein the sensor comprises at least one photodiode.

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            8.   The apparatus according to claim 1, wherein the sensor comprises a jig configured to be temporarily attached to the display screen.

9. The apparatus according to claim 1, wherein the brightness control codes are structured in an EDID format.

10. The apparatus according to claim 9, wherein the  
5 brightness control codes comprise information used to control a power inverter of a liquid crystal display.

11. The apparatus according to claim 1, wherein the  
10 brightness control codes includes high temperature brightness control codes that indicate how to control the brightness of the display screen when the display screen is operated at high temperatures.

12. A display screen for a computer, comprising:  
15 a display portion for displaying an image; and  
a memory configured to store a plurality of brightness control codes that can be used by a controller of a computer system to set the display screen to a corresponding plurality of predetermined brightness levels.

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13. The display screen according to claim 12, wherein the memory is configured to store the brightness control codes in an EDID format.

14. The display screen according to claim 12, wherein the memory is configured to store inverter control codes that can be used to control an inverter that supplies power to the display screen.

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15. A computer system, comprising:

a display screen;

a sensor configured to sense a brightness of the display screen and to output a brightness signal; and

10 a controller coupled to the display screen and the sensor and configured to control a brightness of the display screen based on the brightness signal output by the sensor.

16. The computer system according to claim 15, wherein the  
15 sensor comprises at least one photodiode.

17. The computer system according to claim 15, further comprising an inverter, coupled to the display screen and the controller and configured to provide power to the display screen,  
20 wherein the controller controls the inverter to adjust the brightness of the display screen.

18. The computer system of claim 15, wherein the controller is configured to generate brightness control codes based on the

brightness signal of the sensor, and wherein the brightness control codes can be used to selectively adjust a brightness of the display screen.

5        19. The computer system according to claim 18, wherein the controller is configured to store the brightness control codes in at least one of system BIOS, an operating system, and a microcontroller of the computer system.

10       20. The computer system according to claim 18, wherein the brightness control codes are structured in an EDID format.

21. The computer system according to claim 18, wherein the brightness control codes include high temperature brightness  
15 control codes that indicate how to control the brightness of the display screen when the display screen is operated at high temperatures.

22. The computer system according to claim 15, wherein the  
20 sensor is installed at a center or one side of the display screen.

23. A method for controlling a brightness level of a display in a computer system, the method comprising:

reading brightness control codes from a memory of the display; and

controlling a brightness of the display using the brightness control codes.

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24. The method according to claim 23, wherein the reading step comprises reading a plurality of brightness control codes from the memory of the display, wherein each of the brightness control codes corresponds to a different predetermined brightness level, and wherein the controlling step comprises using the  
10 brightness control code corresponding to a desired brightness level to control the brightness of the display.

25. The method according to claim 23, wherein the reading  
15 step comprises reading brightness control codes from the display that are provided in an EDID format.

26. The method according to claim 23, wherein the reading step includes reading high temperature control codes from the  
20 display, wherein the high temperature control codes provide information about controlling a brightness of the display when the display is operating at a high temperature.

27. The method according to claim 23, wherein the reading step comprises reading brightness control codes that provide information about how to control an inverter coupled to the display to control a brightness of the display.

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28. A method of setting brightness control codes of a display, comprising:

driving the display;

sensing a brightness of the display;

10 adjusting the driving of the display until the display is driven at a predetermined brightness level; and

setting a brightness control code corresponding to the predetermined brightness level.

15 29. The method according to claim 28, wherein the driving step comprises initially driving the display screen using a brightness control code provided by the display manufacturer, and wherein the setting step comprises setting a new brightness control code that replaces the brightness control code provided  
20 by the display manufacturer.

30. The method according to claim 28, wherein the driving, sensing, adjusting and setting steps are performed a plurality of times to set a plurality of different brightness control codes

corresponding to a plurality of different predetermined brightness levels.

31. The method according to claim 30, further comprising  
5 the step of storing the plurality of brightness control codes in a memory of the display.

32. The method according to claim 30, further comprising  
the step of storing the plurality of brightness control codes in  
10 at least one of a system BIOS, an operating system and a microcontroller of a computer system.

33. The method according to claim 30, wherein the setting  
step comprises setting brightness control codes that indicate how  
15 to control an inverter that supplies power to the display.

34. The method according to claim 30, wherein the setting  
step includes setting high temperature brightness control codes  
that provide information about how to control a brightness of the  
20 display when the display is operating at a high temperature.

35. A method according to claim 28, wherein the adjusting  
step comprises changing a signal applied to an inverter that



supplies power to the display to adjust a brightness of the display.

36. A method of controlling a display, comprising:

5 driving the display;

sensing a brightness of the display;

adjusting the driving of the display until the display is driven at a predetermined brightness level;

10 setting a brightness control code corresponding to the predetermined brightness level;

repeating the driving, sensing, adjusting and setting steps a plurality of times to set a plurality of different brightness control codes corresponding to a plurality of different predetermined brightness levels; and

15 using one of the brightness control codes corresponding to a desired brightness level to drive the display at the desired brightness level.

37. The method according to claim 36, wherein the using  
20 step comprises using a brightness control code corresponding to the desired brightness to control an inverter that supplies power to the display.